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Copper Controlled Materials

THIRD QUARTER 1979

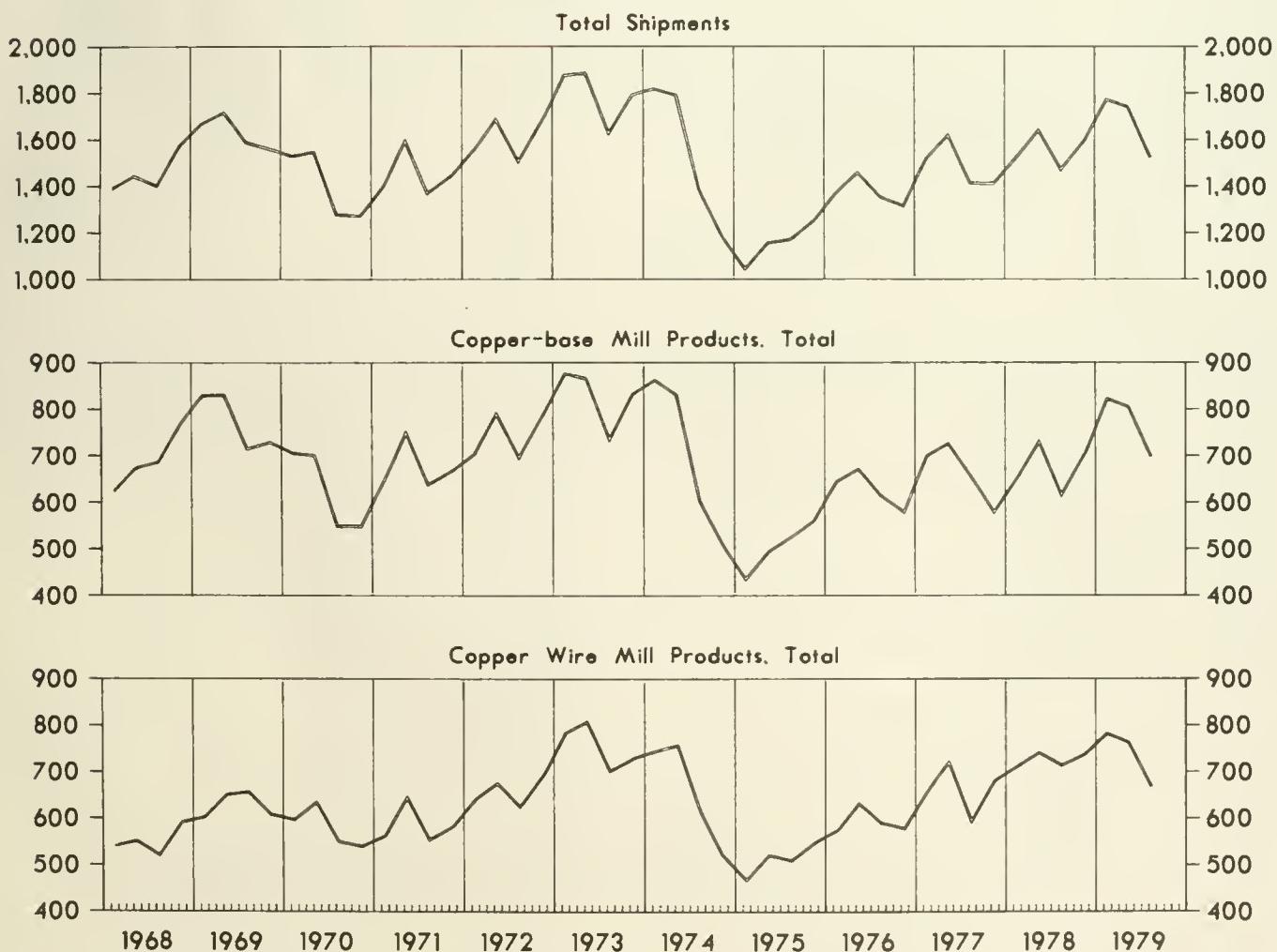
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The statistics in this publication are based on a survey of manufacturers and represent total U.S. shipments of copperbase mill and foundry products. Estimates are included for

companies whose reports were not received in time for tabulation. A more complete description of this survey appears on page 5.

THIS REPORT INCLUDES DATA COMPARING DOMESTIC OUTPUT, EXPORTS, AND IMPORTS

**SHIPMENTS OF COPPER CONTROLLED MATERIALS
FROM BRASS MILLS, COPPER WIRE MILLS, FOUNDRIES, AND POWDER MILLS
1968 TO 1979
(In Thousands of Pounds)**



Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Doris Pope, (301) 763-2528.

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Table 1. SUMMARY OF SHIPMENTS OF COPPER-BASE MILL AND FOUNDRY PRODUCTS

(Millions of pounds - metal weight)

Quarter and year	Total	Brass mill products		Copper wire mill products ¹			Brass and bronze foundry products ³	Copper-base powder mill products
		Alloyed	Unalloyed	Bare wire ²	Insulated communication wire	Other insulated wire		
1979								
Third quarter.....	1,525	433	266	46	206	417	142	15
Second quarter.....	1,742	511	295	67	229	468	156	17
First quarter.....	1,777	538	287	62	208	514	148	20
1978								
Fourth quarter.....	1,598	454	251	62	196	481	139	15
Third quarter.....	1,479	395	225	53	208	455	128	15
Second quarter.....	1,647	472	262	65	210	468	153	17
First quarter.....	1,527	429	224	58	192	463	145	16
1977								
Fourth quarter.....	1,416	378	204	62	186	435	137	14
Third quarter.....	1,417	428	229	55	156	388	146	15
Second quarter.....	1,625	472	256	60	222	442	155	18
First quarter.....	1,522	448	253	53	184	422	145	17
1976								
Fourth quarter.....	1,320	378	204	53	146	382	142	15
Third quarter.....	1,357	406	210	50	169	373	131	18
Second quarter.....	1,462	440	232	51	165	419	138	16
First quarter.....	1,373	419	227	45	144	386	136	16
1975								
Fourth quarter.....	1,253	386	177	48	131	370	129	12
Third quarter.....	1,174	336	191	37	134	341	120	15
Second quarter.....	1,161	323	173	40	140	344	132	9

Note: Detail may not add to totals due to independent rounding.

¹Represents copper content weight, rather than metal weight.²Represents uninsulated, bare tinned, and/or alloy coated wire.³Source: Bureau of the Census Current Industrial Reports Series M33E, "Nonferrous Castings."

Table 2. SHIPMENTS OF COPPER-BASE MILL AND FOUNDRY PRODUCTS

(Millions of pounds - metal weight)

Product	1979		1978 Third quarter
	Third quarter	Second quarter	
Total shipments.....	1,525	1,743	1,479
Copper-base mill products.....	699	806	620
Copper-base alloy:			
Sheet and strip ¹	193	232	170
Rod, bar, and wire ²	203	237	191
Tube and pipe.....	37	42	34
Unalloyed copper:			
Sheet and strip.....	53	69	46
Rod, bar, and wire ²	25	27	19
Tube and pipe.....	188	199	160
Copper wire mill products ³	669	764	716
Bare wire ⁴	46	67	53
Insulated communication wire.....	206	229	208
Other insulated wire.....	417	468	455
Brass and bronze foundry products ⁵	142	156	128
Copper-base powder mill products.....	15	17	15
Copper-base alloy:			
Granular.....	3	4	4
Flake.....	1	1	1
Unalloyed copper:			
Granular.....	11	12	10
Flake.....	(Z)	(Z)	(Z)

Note: Detail may not add to totals due to independent rounding. Monthly shipments data for brass mills and copper wire mills of primary companies are available in Current Industrial Reports Series M33K, "Inventories of Brass and Copper Wire Mill Shapes."

(Z) Less than 500,000 pounds.

¹Military ammunition cups and discs are included on a net-weight basis, i.e., excluding the weight of the webbing scrap generated in the cupping and discing.²Does not include electrical wire.³See footnote 1, table 1.⁴See footnote 2, table 1.⁵See footnote 3, table 1.

Table 3. COPPER-BASE MILL PRODUCTS, SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION 1979

(Quantity in millions of pounds; value in 1,000)

Product ¹	Manufacturers' shipments	Exports of domestic merchandise ²		Estimated producers' value ³	Percent, exports to manufacturers' shipments (quantity)	Imports for consumption ⁴		Calculated import duty	Apparent ⁵ consumption (quantity)	Percent, imports to apparent consumption (quantity)
		Quantity	Value at port			Quantity	Value			
THIRD QUARTER 1979										
Copper-base mill products ⁶	760	34	52,301	49,655	4	87	100,465	1,702	813	11
Brass mill products:										
Copper-base alloy:										
Sheet and strip.....	193	2	9,037	8,610	1	36	34,923	546	426	8
Rod, bar, and wire.....	203	4	4,595	4,378	2	13	17,572	326	42	31
Tube and pipe.....	37	8	11,908	11,346	22					
Unalloyed copper:										
Sheet and strip.....	53	(Z)	541	515	10	17	18,717	221	86	20
Rod, bar, and wire.....	25	9	8,611	8,205	36					
Tube and pipe.....	188	5	6,833	6,510	3	14	20,214	221	197	7
Copper wire mill products, bare wire.....	46	5	9,325	8,885	11	6	7,721	341	47	13
Copper-base powder mill products:										
Copper-base alloy:										
Granular.....	3									
Flake.....	1									
Unalloyed copper:										
Granular.....	11									
Flake.....	(Z)									
SECOND QUARTER 1979										
Copper-base mill products ⁶	890	34	52,628	49,953	4	81	88,484	1,670	937	9
Brass mill products:										
Copper-base alloy:										
Sheet and strip.....	232	3	10,613	10,112	1	37	34,879	576	499	7
Rod, bar, and wire.....	237	4	5,499	5,239	2	13	15,370	327	49	27
Tube and pipe.....	42	6	9,618	9,164	14					
Unalloyed copper:										
Sheet and strip.....	69	1	630	600	1	14	15,838	224	98	14
Rod, bar, and wire.....	27	11	10,271	9,786	41					
Tube and pipe.....	199	3	5,164	4,920	2	10	15,170	181	206	5
Copper wire mill products, bare wire.....	67	5	9,281	8,843	7	6	6,641	301	68	9
Copper-base powder mill products:										
Copper-base alloy:										
Granular.....	4									
Flake.....	1									
Unalloyed copper:										
Granular.....	12									
Flake.....	(Z)									

(Z) Less than half the stated unit of measure.

¹Comparison of domestic manufacturers' shipments, export, and import codes for copper-base mill products appears in table 4.²Source: Bureau of the Census Report FT-410, U.S. Exports, Commodity by Country.³These values were derived by use of adjustment factors to exclude freight, insurance, and other charges incurred in moving goods to the port of export. This adjustment is made to convert the values to an approximation of the producers' value of exported goods; current adjustment factors (.9528 for industry group 335 relating to brass mill and copper wire mill products and .8318 for industry group 339 relating to copper-base powder mill products) are based on data for 1976 which are published in "Origin of Exports of Manufacturing Establishments," M76(AS)-8, appendix A.⁴Source: Bureau of the Census Report IM 145-X, U.S. Imports for Consumption and General Imports.⁵Apparent consumption is derived by subtracting exports from the total of net shipments plus imports.⁶This total does not include either insulated wire and cable products or brass bronze foundry products.

Table 4. COMPARISON OF DOMESTIC MANUFACTURERS' SHIPMENTS, EXPORT, AND IMPORT CODES FOR COPPER-BASE MILL PRODUCTS: 1979

Product	Exports of domestic merchandise (Schedule B)	Imports for consumption (TSUSA)
Copper mill products:		
Copper-base alloy:		
Sheet, strip, and plate.....	612.3360, 612.3370, 612.3380	{ 612.3400, 612.3500, 612.3600, 612.3800, 612.3920, 612.3940,
Rod, bar, and wire ¹	612.4620	612.3960, 612.3980, 612.4000, 612.4100, 612.4300, 612.4410,
Tube and pipe.....	613.0520, 613.0530	612.4430, 612.4510, 612.4520, 612.5200, 612.6100, 612.6200,
Unalloyed copper:		612.6300, 612.6410, 612.6420, 612.8000
Sheet, strip, and plate.....	612.3320	612.3000, 612.3120, 612.3140, 612.3160, 612.3200,
Rod, bar, and wire ¹	612.4640	612.5000, 612.6000, 612.8100, 612.8200
Tube and pipe.....	613.0540, 613.0550	613.0600, 613.0800, 613.1000, 613.1100, 613.1200
Copper wire mill products, bare wire.....	612.7420, 612.7440	612.7000, 612.7100, 612.7220, 612.7240, 612.7260, 612.7300
Copper base powder mill products:		
Copper-base alloy:		
Granular.....		
Flake.....	612.5400	612.5500, 612.5600
Unalloyed copper:		
Granular.....		
Flake.....		

¹The import and export codes for this line do not include wire.

DESCRIPTION OF SURVEY

Scope of Survey—This survey includes firms engaged in manufacturing copper-base mill products.

Sampling Description—The statistics in this publication were collected on Bureau of Industrial Economics, **Copper Controlled Materials**, Form ITA-9008. The mailing panel for these surveys includes all known producers of brass mill products and copper-base powder, as well as those manufacturers who produce 95 percent of wire mill products. The data for wire mill products are inflated to represent 100 percent coverage.

Survey Error—The quarterly figures include estimates for respondents whose reports were not received in time for tabulation, as well as those establishments not included in the mailing panel. Such missing figures are "imputed" from prior reports and/or estimates and are generally limited to a maximum of 10 percent for any one item. Individual items with imputation greater than 10 percent are footnoted.

The imputation rate is not an explicit indicator of the potential error in published figures. The probable range of difference between the actual and imputed figures is unknown. The degree of uncertainty regarding the accuracy of the data, however, increases as the percentage of imputation increases. Figures with imputation rates above 10 percent should be used with caution.

Revision to Previous Period Data—Statistics for previous quarters may be revised due to receipt of corrected data from respondents, including late reports for which imputations were previously made as described above and other corrections. Figures which have been revised by more than 5 percent from previously published figures are indicated by footnotes.

Seasonal Adjustment—The data are not adjusted for seasonal variation.

EXPLANATION OF TERMS

Shipments—Shipments by brass and bronze foundries include both shipments for sale (to the trade) and shipments for own use. Shipments for own use represent copper and copper-base alloy castings for use by the reporting company or an affiliate, subsidiary, or parent company, and also include castings produced and consumed at the sale location in the production of finished products.

Shipments by brass mills, copper wire mills and copper-base powder mills include all controlled materials orders shipped: by the respondent for his own account, by other copper-controlled materials producers for the respondent's account, or by the responding company under toll arrangements for the account of controlled materials consumers.

COMPARISON OF EXPORT, IMPORT, AND DOMESTIC OUTPUT DATA

The Standard Industrial Classification (SIC) system used for domestic output and the statistical export and import com-

modity classifications were developed independently and are based on somewhat differing systems of classification. This results in considerable difficulty in comparing the three types of data for many commodity areas. The domestic output classification is based on type of industry; whereas, the export and import classification system is more materials oriented. Aside from the differences in the basic commodity classifications, there are additional problems involving import data, since there are a substantial number of imported commodities which are not produced in the United States or which are produced only in very small quantities and which, therefore, have no comparable domestic output classification. The relationships shown in this report should be considered only as approximations, since, in addition to those mentioned above, there are also the following problems affecting the comparability of the three sets of data:

a. *Valuation*—There are different methods of valuation for the three types of data.

Domestic Output—Valued at the point of production. It includes the net sales price, f.o.b. plant, after discounts and allowances, exclusive of freight charges and excise taxes.

Exports—Valued at the point of exportation. It includes the selling price, or cost if not sold, and inland freight, insurance, and other charges to the export point.

Estimated producers' values of exports have also been developed. These values more closely approximate the values reported for domestic output because they exclude freight, insurance, and other charges applied from the producing plant to the export point.

Imports—Valued at the first port of entry in the United States. It includes c.i.f. (cost, insurance, and freight), duty, and other charges to the import point.

b. *Duplication in Quantity and Value of Output*—Because producers' shipments of some commodities may be used as materials for incorporation into other commodities, combinations of data for such commodities may contain a certain amount of duplication. Thus, percentages of exports to output or imports to apparent consumption (output plus imports minus exports) at four-digit or broader levels may be understated. Where duplication is known to be substantial, the output data are appropriately noted in the table.

c. *Low-Valued Export and Import Transactions*—Commodity information is not shown for individual imports valued under \$251. For exports, commodity information is not reported for shipments individually valued under \$251 effective October 1969 and for shipments valued under \$100 prior to October 1969. This is believed to have only negligible effect on the statistics for most commodities.

d. *Manufacturers' Shipments, Not Specified by Kind*—The value of manufacturers' shipments at the four-digit industry

level often includes a small amount which is not distributed among the individual five-digit product classes. Export and import percentages at the more detailed levels might, therefore, be slightly overstated.

e. *Time Lag Between Output and Exports*—There will be a lag between the time a commodity is produced or shipped by the producer and the time it is actually exported, especially when intermediaries (wholesalers, exporters, etc.) are involved. Ordinarily, this type of discrepancy is insignificant in annual figures.

f. *"Direct" vs "Total" Commodity Export and Imports*—Export and import data do not include materials which are incorporated into other more finished products and exported or imported in finished form. Thus, by showing only direct exports and imports, the relation of exports to output and imports to apparent consumption for intermediate products is considerably understated.

g. *Used Commodities*—With a few exceptions, used or rebuilt commodities are classified in the same import or export codes as is new merchandise. Percentages are thus overstated to the extent that used or rebuilt products are significant in trade.

RELATED REPORTS

An Annual Current Industrial Report is published in this series. The annual report summarizes quarterly figures and incorporates all revisions in the series for both the current and the previous year, thus providing a single reference copy to replace the quarterly publications.

The Bureau of the Census also publishes reports on related products as follows:

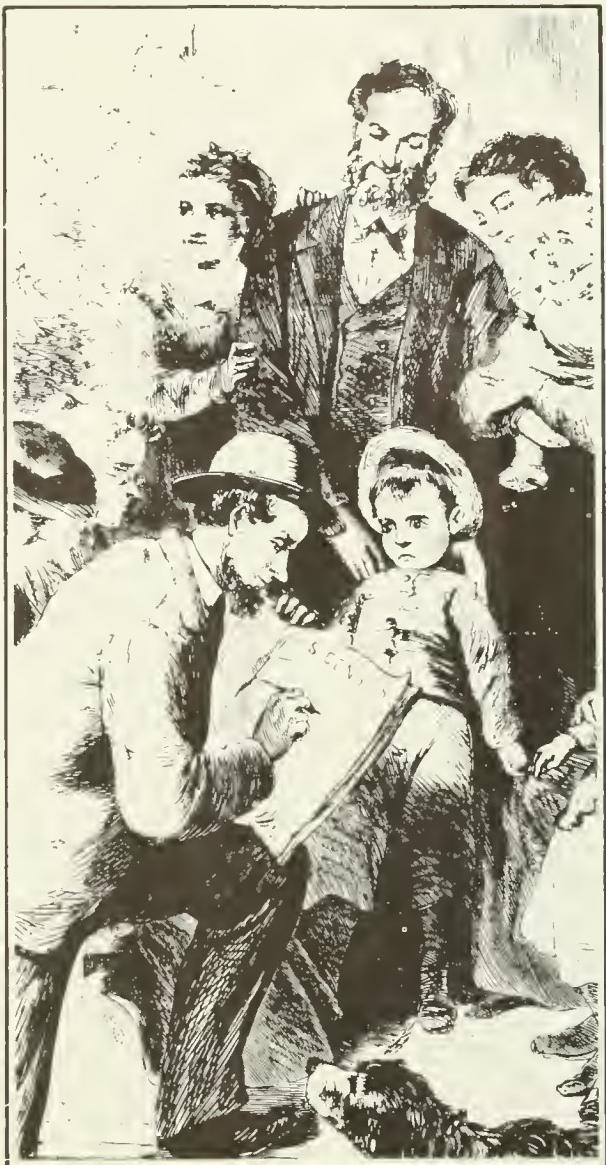
Series	Frequency	Title
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M33E	Monthly	Nonferrous Castings
M33K	Monthly	Inventories of Brass and Copper Wire Mill Shapes
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